IO Tracking

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Tracking meeting

07/16/03

IO tracking

- Procedure:
  1. Seeded with Silicon standalone tracks
  2. Extrapolate tracks to COT, taken into account multiple scattering
  3. Attach COT hits, from which fit a COT track
  4. Refit the seed silicon standalone track using parameters of the COT track as initial values (OI style)

IO tracking on 4.11.0 MC

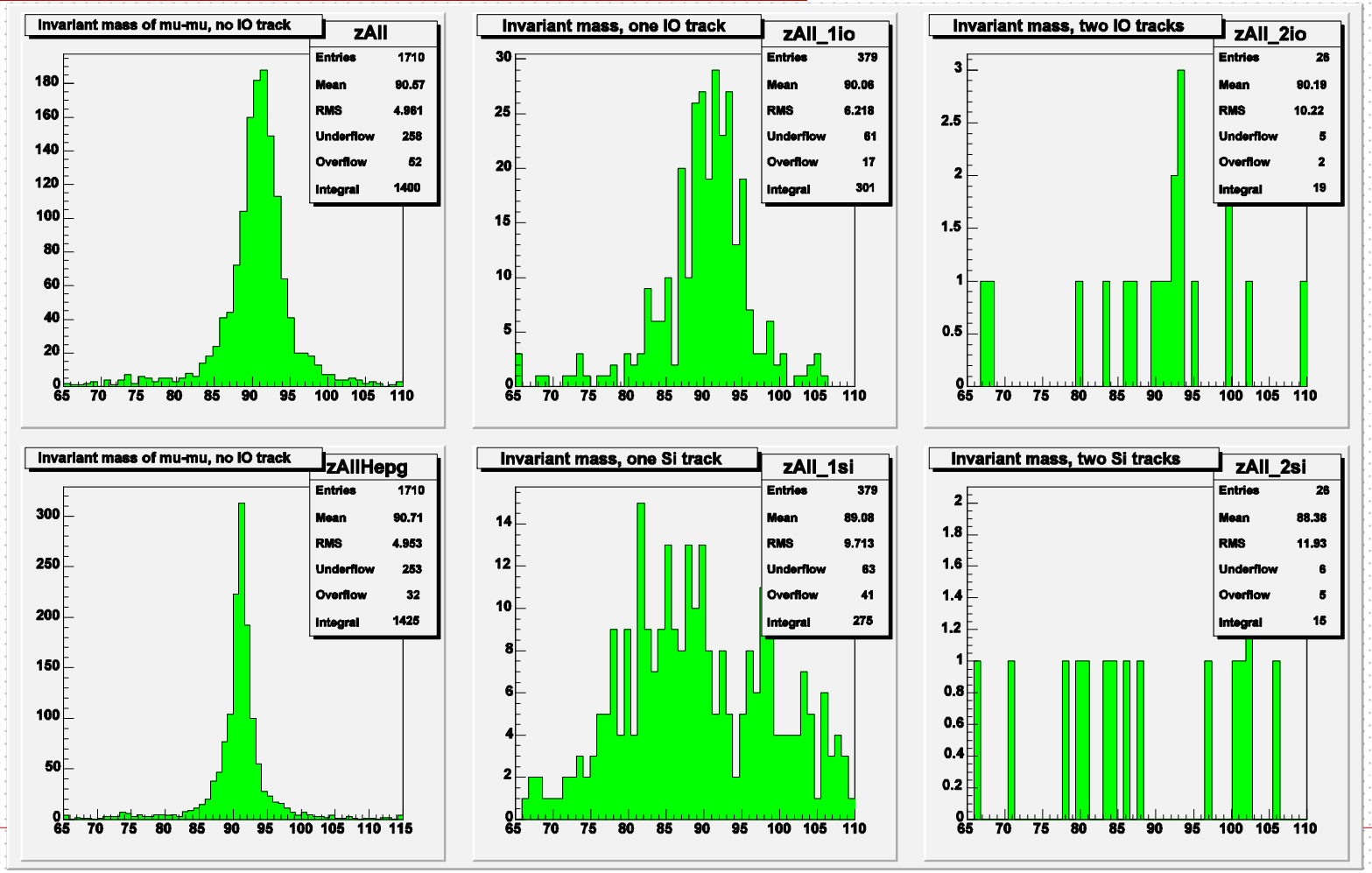
- ~8k Z? μμ events

	SISA	IO
?c RMS	4.98E-05	3.64E-05
?d0 RMS	0.00249	0.00223
?F0 RMS	0.00087	0.0007
?z0 RMS	0.201	0.158
?cot? RMS	0.027	0.021

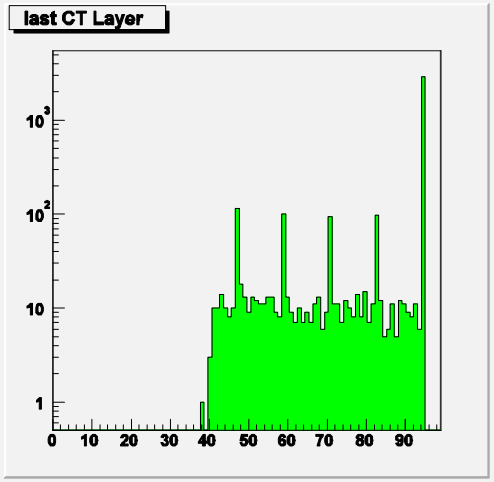
- Efficiency = 94% for particles with Pt>2.0GeV/c, and pass at least two SLs

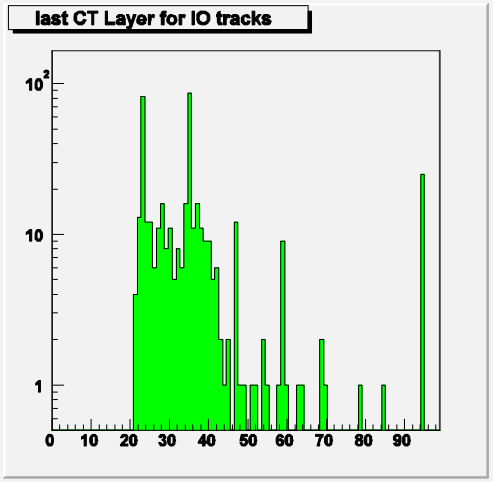
<see comparator.ps>

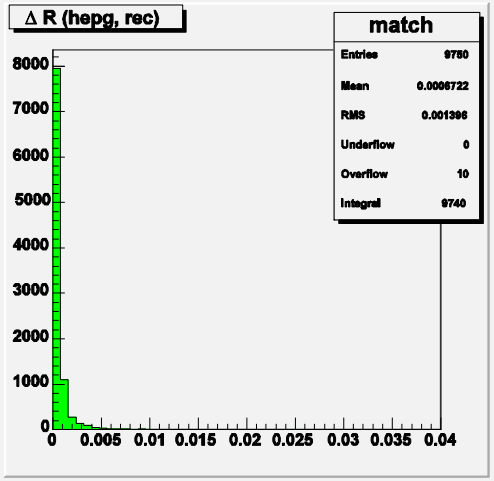
$Z \rightarrow \mu\mu$ MC

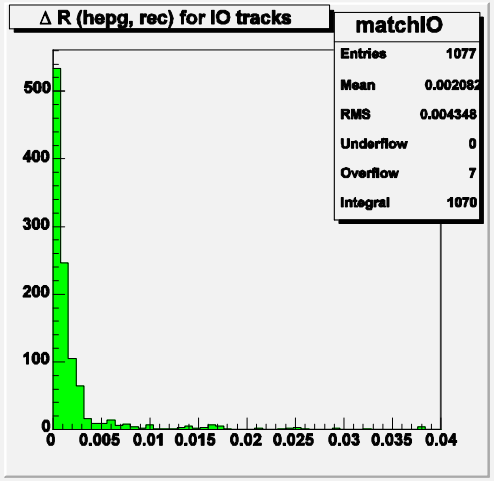


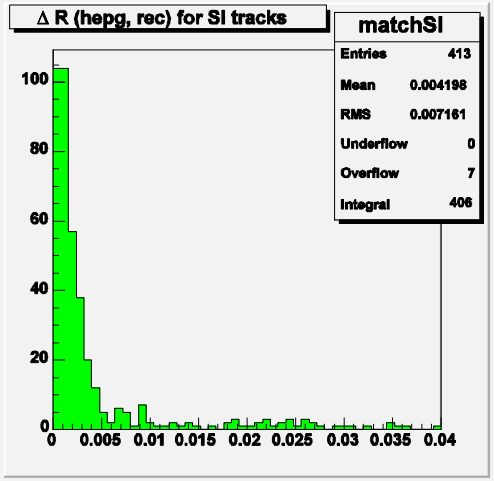
$Z \rightarrow \mu\mu$ MC



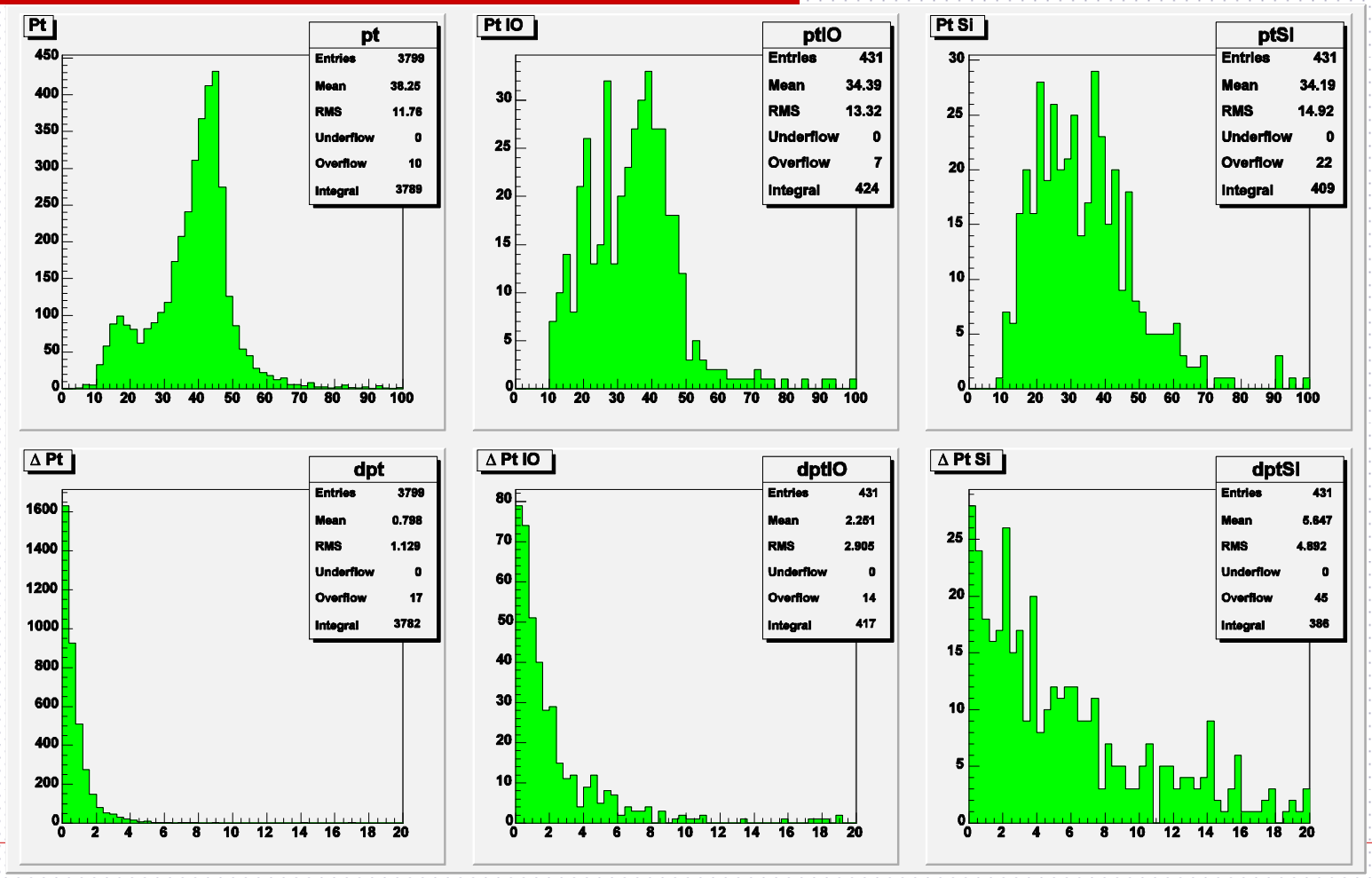








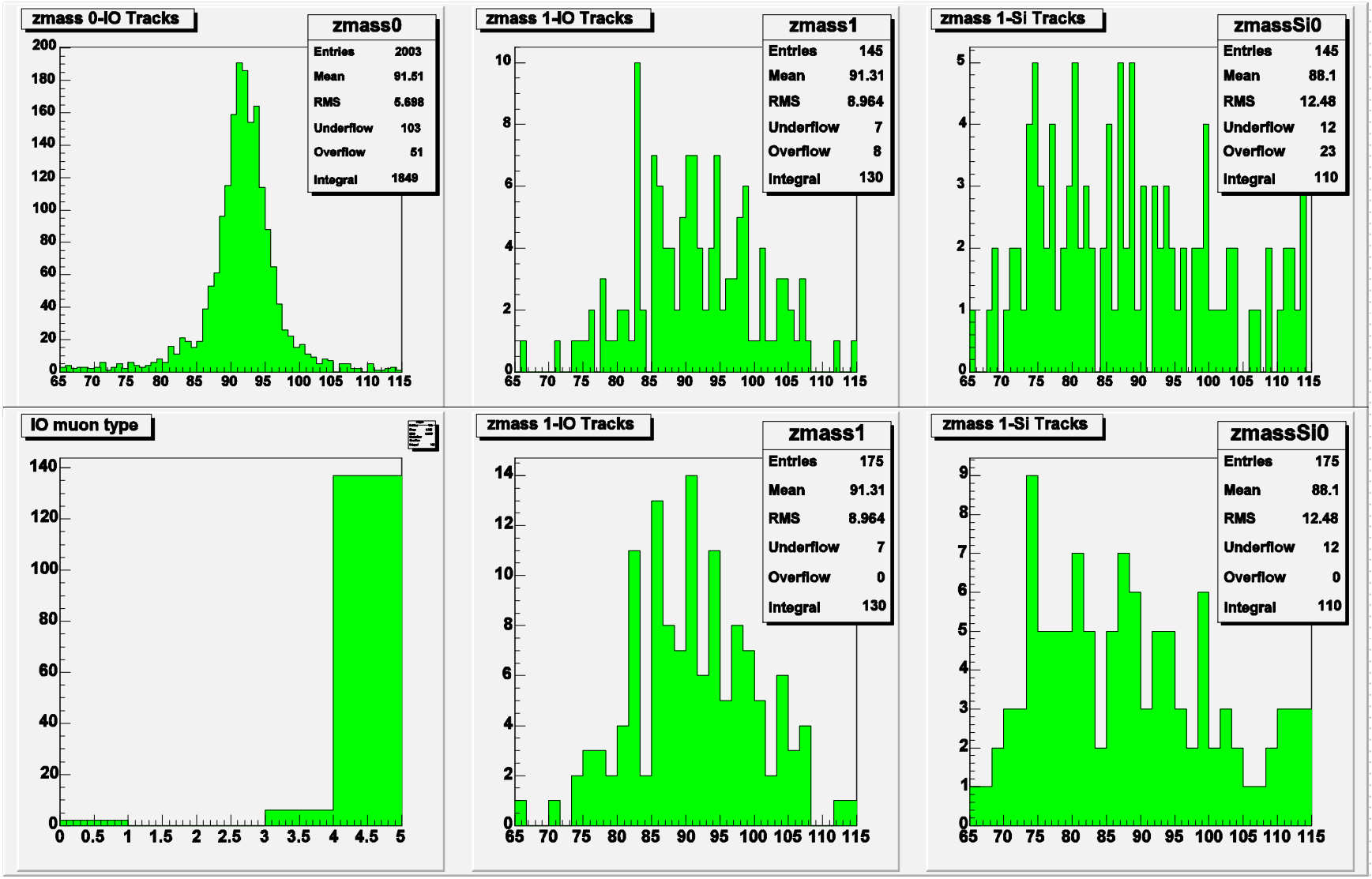
$Z \rightarrow \mu\mu$ MC



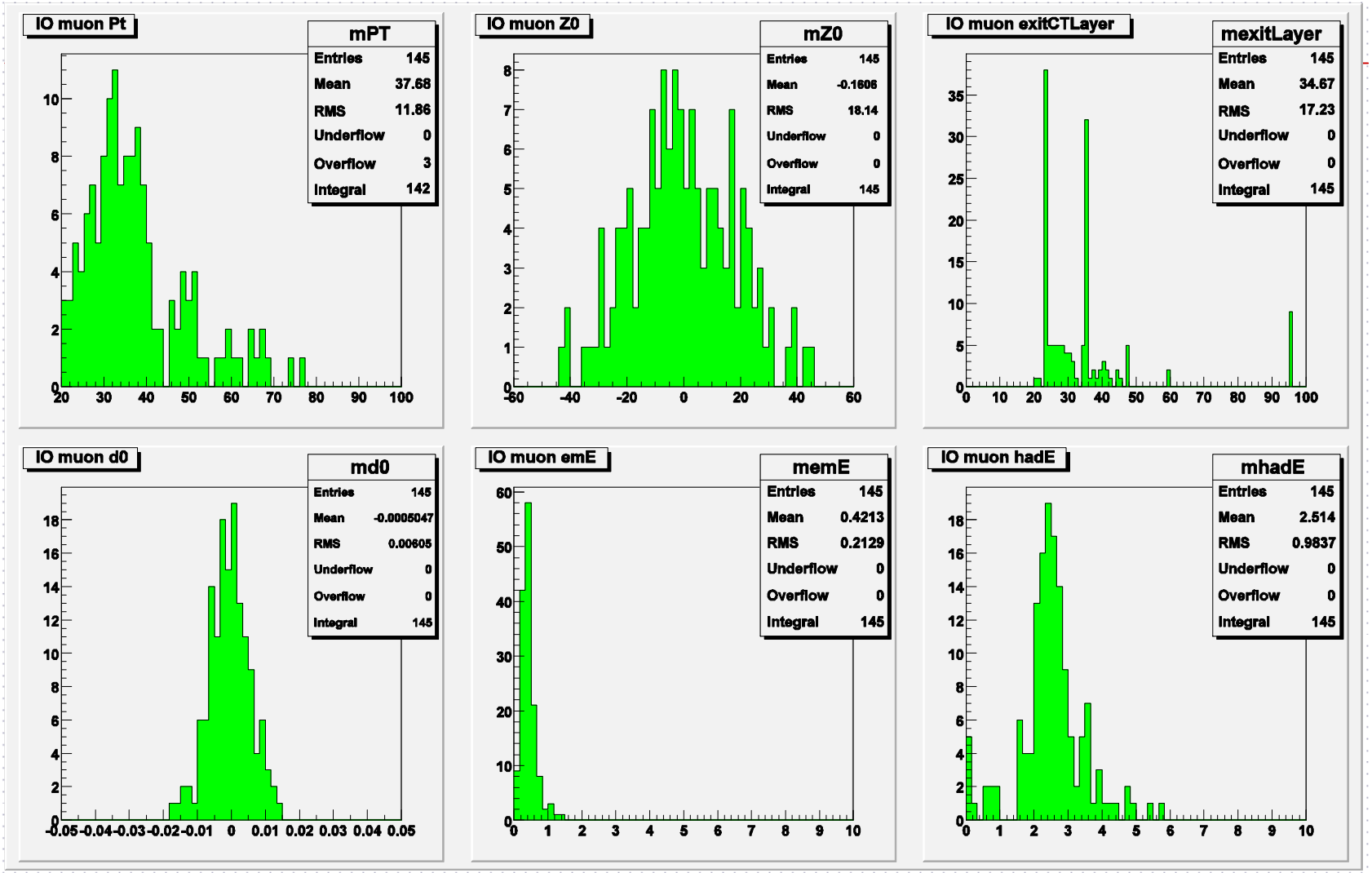
IO tracking on data

- bhmu08
- run > 149717
- Silicon alignment table “150034 7 TEST”

On data bhmu08



On data bhmu08



Plan

- Redo once new silicon alignment becomes available
- Study IO tracking on other data samples